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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/824,774	04/04/2001	Ikuko Inoue	205280US2 1433		
22850	7590 05/05/2005		EXAMINER		
•	PIVAK, MCCLELLA	LONG, HEATHER R			
1940 DUKE ALEXANDI	RIA, VA 22314	ART UNIT	PAPER NUMBER		
			2615		
		DATE MAILED: 05/05/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
		09/824,77	· 4	INOUE, IKUKO				
	Office Action Summary	Examiner		Art Unit				
		Heather R	. Long	2615				
- Period fo	- The MAILING DATE of this communication app	ears on the	cover sheet with the c	orrespondence ad	dress			
A SHO THE N - Extens after S - If the - If no - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, uply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no eve within the statu ill apply and wil cause the appli	ent, however, may a reply be tim story minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).				
Status								
2a)⊠ 3)□	Responsive to communication(s) filed on <u>10 December 2004</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims							
5)□ (6)⊠ (7)⊠ (Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1.2 and 5 is/are rejected. Claim(s) 3 and 4 is/are objected to. Claim(s) are subject to restriction and/or election requirement. 							
Application	on Papers							
10)⊠ 1 Examiner.	Applicant may not request that any objection to the o	ecember 20 drawing(s) b ion is require	e held in abeyance. See	e 37 CFR 1.85(a). jected to. See 37 CF	FR 1.121(d).			
11) 🔲 7	The oath or declaration is objected to by the Ex	aminer. No	te the attached Office	Action or form PT	O-152.			
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Inform	(s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 4/4/2001.		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	D-152)			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-5 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1, 2, and 5 are rejected under 35 U.S.C. 102(a) as being anticipated by Isokawa et al. (JP 2000-150846) (all citations are from the English translation).

Regarding claim 1, Isokawa et al. discloses in Fig. 1 an image pickup system comprising: MOS sensors arranged in an image pickup region of a semiconductor substrate (1) in the form of a matrix and having photoelectric transfer layers (4); a peripheral circuit part (3) formed in a region of the semiconductor substrate (1) except for the image pickup region (2) and having a driving circuit for driving the MOS sensors and a signal processing circuit for processing output signals from the MOS sensors; and microlenses (page 3, paragraph [0018]) formed to contact with a first insulating film (11), for condensing picture signals on the photoelectric transfer layers (4), the first

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insulating film (11) being formed above the photoelectric transfer lavers (11), wherein the driving circuit and the signal processing circuit in the peripheral circuit part are covered by a second insulating film, and the distance between the surface of the first insulating film and the semiconductor substrate is shorter than the distance between the surface of the second insulating film and the semiconductor substrate (page 3, paragraph [0017]).

Regarding claim 2, Isokawa et al. discloses all the limitations previously discussed with respect to claim 1 as well as disclosing an image pickup system wherein the peripheral circuit part has at least first through third wiring layers which are stacked via an insulating film to form a multi layer metallization structure (Fig. 1; page 3, paragraph [0019]).

Regarding claim **5**, Isokawa et al. discloses all the limitations previously discussed with respect to claim 1 as well as disclosing an image pickup system wherein the distance between each of the microlenses and a corresponding one of the photoelectric transfer layers is substantially equal to the focal length of the corresponding one of the microlenses. It is inherent that the distance between each of the microlenses and a corresponding one of the photoelectric transfer layers is substantially equal to the focal length of the corresponding one of the microlenses in order to allow the light to focus properly on the photoelectric transfer layers.

Allowable Subject Matter

4. Claims 3 and 4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject matter: Prior art fails to teach or fairly suggest an image pickup system, in combination with all the other elements claimed, wherein a shading layer is formed in the image pickup region so as to be the same layer as the second wiring layer.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather R. Long whose telephone number is 571-272-7368. The examiner can normally be reached on Mon. - Thurs.: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on 571-272-7950. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Heather R Long Examiner Art Unit 2615

HRL April 25, 2005

TUAN HO
PRIMARY EXAMINER